

ABSTRACT OF THE DISCLOSURE

An apparatus and method for droplet steering is disclosed herein. A throated structure having a nozzle defines a converging throat with an inlet and an outlet and a vectored fluid stream directed therethrough. The fluid stream is driven through the system via a vacuum pump. As the fluid approaches the outlet, its velocity increases and is drawn away from the nozzle through a connecting channel. As a droplet is ejected from a liquid therebelow, it will have a first trajectory until it is introduced to the high velocity fluid stream at the perimeter of the interior walls of the nozzle. The fluid accordingly steers the momentum of the droplet such that it obtains a second or corrected trajectory. Alternative variations include an electrically chargeable member, e.g., a pin, positionable to be in apposition to the outlet and capillary tubes for controlling the ejection surface of the pool of source fluid.